La CENT COOPERATION TREATY

From the INTERNAT	IONAL SEARC	HING AUTH	ORITY					
To: LISA ADELSON ARNOLD & PORTER LLP				PCT				
IP DOCKETING DEPT. 555 TWELFTH STREET, N.W. WASHINGTON, DC 20004				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				(PCT Rule 43bis.1)				
				Date of mailing (day/month/year) 31 MAY 2005				
Applicant's or agent's file reference 18770.003				FOR FURTHER ACTION See paragraph 2 below				
	nal application No).	International filing date	(day/month/year)	/month/year) Priority date (day/month/year)			
PCT/US05/03665			09 February 2005 (09.02.2005)		09 February 2004 (09.02.2004)			
Internation	nal Patent Classif	ication (IPC)	or both national classifica					
IPC(7): B01D 53/34; B01J 8/00; C10L 1/00 and US C1.: 423/212, 213.2, 213.5; 44/300								
Applicant								
02DIESEI	CORPORATIO	N						
1. This opinion contains indications relating to the following items:								
	Box No. I Basis of the opinion							
	Box No. II Priority							
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
	Box No. IV	Lack of unity of invention						
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII	tox No. VIII Certain observations on the international application						
2. FUR	THER ACTIO	N						
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.								

Authorized officer

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Name and mailing address of the ISA/ US

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/03665

Box No	o. I Basis of this opinion						
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a.	type of material						
	a sequence listing						
	table(s) related to the sequence listing						
b.	format of material						
	in written format						
	in computer readable form						
	•						
c.	time of filing/furnishing						
	contained in international application as filed.						
	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority for the purposes of search.						
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4. Additi	ional comments:						
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AP11 Rec'd PCT/PTO 03 AUG 2006

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/03665

1. Statement			VPO
Novelty (N)	Claims	1-10	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-10	NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims	NONE	NO
Citations and explanations: Claims 1-10 lack an inventive step under PCT Art EP '143 discloses a fuel additive composition			

catalyst comprised of a platinum metal on a molecular sieve.

WO '114 teaches the use of a catalyst in a catalytic combustion process of fuels such as ethanol, wherein the catalyst is comprised of a platinum metal on a carrier (see abstract and p. 10, lines 21-31).

ethanol/diesel fuel blend (see abstract and p. 3, lines 14-30). The diesel fuel is present in a concentration of 60 to 95% by volume. The amount of ethanol is from 5 to 20% by volume. The ethanol is fuel grade. The fuel blend is a clear homogeneous solution (p. 4, lines 47-52). EP '143 also discloses a surfactant (p. 5, lines 11-19). However, EP '143 does not disclose having an oxidation

Therefore, it would have been obvious to one of ordinary skill in the art to modify the teachings of EP'143 based on the teachings of WO'114 by treating a diesel fuel blend comprised of ethanol with a platinum oxidation catalyst, with the expectation of reducing the particulate matter content of the exhaust gas by at least 25%, because WO'114 teaches wherein it is known in the art to treat an exhaust gas from a diesel engine comprised of a fuel having ethanol with a platinum catalyst. EP'143 clearly discloses wherein it is known in the art to have diesel fuel/ethanol blends along with fuel additives.

Claims 1-10 meet the criteria set out in PCT Article 33(2), because the prior art does not teach or fairly suggest a method of reducing particulate matter content of a diesel engine exhaust, wherein the method comprises operating a diesel engine utilizing as the fuel an ethanol/diesel fuel blend; and contacting the exhaust with a diesel oxidation catalyst for an amount of time sufficient to reduce the particulate matter content by at least 25%.

Claims 1-10 meet the criteria set out in PCT Article 33(4), and thus exhibit industrial applicability because the subject matter claimed can be made or used in industry.